

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Applicants : Bernard H. Kear, Oleg A. Voronov  
Serial No. : (Unknown)  
Filed : March 23, 2004  
For : COMPOSITE MATERIALS CONTAINING A  
NANOSTRUCTURED CARBON BINDER PHASE  
AND HIGH PRESSURE PROCESS FOR MAKING  
THE SAME  
Examiner: : (Unknown)  
Group Art Unit : (Unknown)  
Atty. Docket No. : 879.1.008

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EXPRESS MAIL CERTIFICATE	
DATE	March 23, 2004
LABEL NO.	EV 026600378 US
I HEREBY CERTIFY THAT, ON THE DATE INDICATED ABOVE, I DEPOSITED THIS PAPER OR FEE WITH THE UNITED STATES POSTAL SERVICE AND THAT IT WAS ADDRESSED FOR DELIVERY TO THE COMMISSIONER FOR PATENTS, ALEXANDRIA, VA 22313-1450 BY "EXPRESS MAIL POST OFFICE TO ADDRESSEE" SERVICE.	
NAME (PRINT)	Kenneth Watov
SIGNATURE	<i>Kenneth Watov</i>

March 10, 2004

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Transmitted herewith is an Information Disclosure Statement ("IDS") in the above-referenced Application, together with a Form-1449 listing all references cited and a copy of each reference.

This IDS is being mailed within three (3) months of filing of the above-captioned Application, if it is a National Application, or within three (3) months of entering, as set forth in 37 C.F.R. § 1.491, the national stage of the above-captioned Application, if the above-captioned Application is an International Application. Therefore, consideration of the IDS by the Patent and Trademark Office, without the payment of any additional fee, is believed to be due under 37 C.F.R. § 1.97(b). However, the Commissioner is hereby authorized to charge Deposit Account No. 23-0510 if any fee under 37 C.F.R. 1.17 is deemed necessary for the accompanying references to be considered by the Patent and Trademark Office.

All the references are in English and/or are cited in an accompanying English language version of the Search Report by another Patent Office, so that comment on the references by the Applicant is not required under 37 C.F.R. § 1.98(a).

Respectfully submitted,



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<b>Form PTO-1449</b> (REV. 8-83) U.S. Department of Commerce Patent and Trademark Office <b>INFORMATION DISCLOSURE</b> <b>CITATION</b> (Use several sheets if necessary)		ATTY. DOCKET NO. 879.1.008		SERIAL NO. (Unknown)			
		APPLICANT(S) Bernard H. Kear, Oleg A. Voronov					
		FILING DATE March 23, 2004		GROUP (Unknown)			
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,090,343	7/18/2000	Kear et al.	419	45	
		6,214,079	4/10/2001	Kear et al.	75	230	
		6,245,312	6/12/2001	Blank et al.	423	445	
		US2003/0154913 A1	8/21/2003	Oleg A. Voronov	117	200	
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
		O.A. Voronov, G.S. Tompa, "Fullerene based Sintered Carbon Materials," PCT/US99/21174, 1999, International Publication No. WO 00/15548 (23 March 2000).					Yes
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
		J.C. Withers, R.O. Loutfy, T.P. Lowe, "Fullerene Commercial Vision," Fullerene Sci. & Tech., 5(1), p. 1-31, 1997.					
		E.N. Yakovlev, O.A. Voronov, "The Gibbs Energy of Fullerite C <sub>60</sub> at Pressures up to 20 GPa in temperature range 300-1000K," High Temperature-High Pressure, 26, 1994, p. 639-643.					
		M.E. Kozlov, M. Hirabayashi, K. Nozaki, M. Tokumoto, H. Ihara, "Transformation of C <sub>60</sub> Fullerenes into a Superhard Form of Carbon at Moderate Pressure," Applied Physics Letters, 66 (10), 1995, p. 1199-1201.					
		O.A. Voronov, G.S. Tompa, B.H. Kear, "High Pressure High Temperature Consolidation of Fullerenes and Nanotubes for Precision Cutters and Other Applications," Report DMI-41035-FINAL for DoD SBIR DARPA, 121 p., 2003.					
		O.A. Voronov, G.S. Tompa, B.H. Kear, P. Yan, "Development of Superhard Sintered Fullerene Balls and Rollers for Bearings," Report DMI-41052-Final for DoD MDA SBIR, 40 pages, 2002.					
		V. Blank, M. Popov, S. Buga, V. Davydov, V.N. Denisov, A.N. Ivlev, B.N. Mavrin, V. Agafonov, R. Ceolin, H. Szwarc, A. Rassat, "Is C <sub>60</sub> Fullerite Harder than Diamond?", Physics Letters A 188, 1994, p. 281-286.					
		O.A. Voronov, G.S. Tompa, P. Yan, D. O'Brien, A. Ghavami, B. Baxter, "Nanophase Fullerene-Nanotube-Beryllium Composite Cutters for Drilling on Mars," Report DMI-41042-Final for NASA SBIR, 31 p., 2000.					
		O.A. Voronov, G.S. Tompa, B.H. Kear, "High Pressure Sintered Nanotubes-Fullerenes for Propulsion Systems," Report DMI-41047-Final for NASA SBIR, 24 pages, 2001.					
		O.A. Voronov, G.S. Tompa, B.H. Kear, "Lightweight Carbon Ceramic Composites for Thermally Resistant Bearings," Report DMI-41070-Final for DoD MDA SBIR, 42 pages, 2004.					
		B. S. Files and C. R. Forest, "Elastomer Filled With Single-Wall Carbon Nanotubes," NASA Tech Briefs, March 2004, p. 46.					
Examiner					DATE CONSIDERED		
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							